

Weckesser

BULLETIN NO. 1500
SHOULDER WASHERS

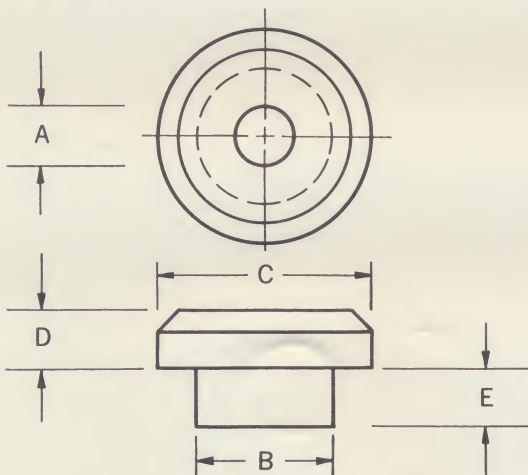
MOLDED NYLON SHOULDER WASHERS

Meets Military Spec.
MIL-P-20693 Type 1

Weckesser Molded Nylon Shoulder Washers are non-conductive, and resistant to corrosion and abrasion to provide full insulating protection. These washers are ideal for use as:

1. Shoulder washer where screws must be insulated
2. Bushing to insulate and protect wires, cables, tubing, etc.
3. Spacer
4. Bumper

Weckesser Shoulder Washers are available from stock for No. 2, 4, 6, 8, 10, ¼-20 and ⅜-16 screws. Colors available: black or natural, other colors at extra cost. For applications requiring washer sizes other than those listed below, write for quotation.



SPECIFICATIONS

PART NO.	A I.D.	B O.D.	C FL. DIA.	D FL. THK.	E SLEEVE
SW-2	.093	.156	.250	.040	.040
SW-4	.122	.187	.281	.040	.040
SW-6	.146	.218	.328	.040	.040
SW-8	.174	.250	.375	.050	.050
SW-10	.201	.281	.437	.050	.050
SW-25	.260	.375	.562	.060	.060
SW-37	.385	.500	.750	.060	.060

Weckesser COMPANY, Inc.

5701 Northwest Highway, Chicago, Illinois 60646
Area Code 312 Phone 763-6688 • Teletype 312-265-1322

eem File System Sec.
electronic engineers master 6000

SPECIFILE
HARDWARE & FITTINGS 254-H





SHOULDER WASHER

PRICE LIST

PART NO.	PRICE PER 1,000 - IN LOTS OF					
	LESS THAN 500	500 TO 999	1,000 TO 4,999	5,000 TO 24,999	25,000 TO 49,999	50,000 AND OVER
SW - 2	\$ 7.65	\$ 7.32	\$ 6.98	\$ 6.65	\$ 6.32	\$ 5.99
SW - 4	7.89	7.55	7.20	6.86	6.52	6.17
SW - 6	8.23	7.88	7.52	7.16	6.80	6.44
SW - 8	9.08	8.69	8.30	7.90	7.51	7.11
SW - 10	9.82	9.39	8.97	8.54	8.11	7.69
SW - 25	12.80	12.24	11.69	11.13	10.57	10.02
SW - 37	16.95	16.21	15.48	14.74	14.00	13.27

MOLDED. Specify color: Black or natural also available in various vat-dyed colors at slight additional charge. Sizes may be accumulated to obtain quantity discounts.

Minimum billing \$5.00. Items ordered on minimum billing may not be returned for credit. Terms: Invoices dated 1st - 15th, 1% if paid by 25th; invoices dated 16th - 31st, 1% if paid by 10th. Otherwise 30 days net. F.O.B. shipping point. Transportation charges allowed on net billings of \$50.00 or more only on shipper's choice of carrier. No discount allowed on transportation, sales taxes, or similar charges.

Prices subject to change without notice.

Supersedes all previous price lists.

EFFECTIVE JANUARY 15, 1964

Manufactured by

Weckesser COMPANY, INC.

5701 Northwest Highway - Chicago, Illinois 60646

TELETYPE: 312-265-1322

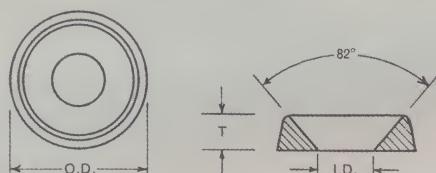
TELEPHONE: ROdney 3-6688
Area Code: 312

Weckesser

BULLETIN NO. 1300
NYLON WASHERS

NYLON FINISHING WASHERS

Weckesser Molded Nylon Finishing Washers are for use with No. 6, No. 8, No. 10 and 1/4" countersunk metal or nylon screws. They prevent cutting and scratching of instrument and control panels, cover misaligned holes, can be used as glides, protective feet, bumpers, insulators, spacers. Smooth glossy finish. Black or natural color from stock. Other colors at slight additional cost.

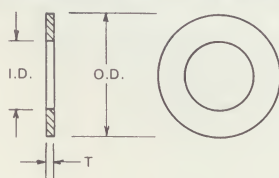


PART NO.	O.D.	I.D.	T.
FW-6	.437	.143	.100
FW-8	.515	.171	.115
FW-10	.580	.191	.152
FW-25	.683	.251	.183



NYLON FLAT WASHERS

Stamped from extruded nylon strip. Used as insulating or cushioning washers, spacers, thrust washers. Black or natural color from stock, other colors at slight additional cost.



PART NO.	I. D.	O.D.	T.
NW4-2812	.120	9/32	.020
NW4-2813	.120	9/32	.030
NW4-2814	.120	9/32	.040
NW4-2815	.120	9/32	.050
NW4-2816	.120	9/32	.060
NW6-3122	.150	5/16	.020
NW6-3123	.150	5/16	.030
NW6-3124	.150	5/16	.040
NW6-3125	.150	5/16	.050
NW6-3126	.150	5/16	.060
NW8-3752	.170	3/8	.020
NW8-3753	.170	3/8	.030
NW8-3754	.170	3/8	.040
NW8-3755	.170	3/8	.050
NW8-3756	.170	3/8	.060
NW10-4372	.195	7/16	.020
NW10-4373	.195	7/16	.030
NW10-4374	.195	7/16	.040
NW10-4375	.195	7/16	.050
NW10-4376	.195	7/16	.060
NW25-6872	.260	1 1/16	.020
NW25-6873	.260	1 1/16	.030
NW25-6874	.260	1 1/16	.040
NW25-6875	.260	1 1/16	.050
NW25-6876	.260	1 1/16	.060

Weckesser

COMPANY, Inc. 5701 Northwest Highway • Chicago 46, Ill.

Area Code 312 Phone: 763-6688 • Teletype: 312-265-1322

eem File System Sec.
electronic engineers master 6000

SPECIFILE HARDWARE & FITTINGS 254-H

PRICE LIST

NYLON FINISHING WASHERS

PART No.	PRICE PER THOUSAND - IN LOTS OF:					
	LESS THAN 500	500 TO 999	1,000 TO 4,999	5,000 TO 24,999	25,000 TO 49,999	50,000 AND OVER
FW-6	\$17.80	\$17.03	\$16.25	\$15.48	\$14.71	\$13.93
FW-8	18.76	17.94	17.13	16.31	15.49	14.68
FW-10	20.06	19.18	18.31	17.44	16.57	15.70
FW-25	21.64	20.70	19.76	18.82	17.88	16.94

Molded. Specify color: Black or Natural. Also available in various vat-dyed colors at slight additional charge. charge. Sizes may be accumulated to obtain larger quantity discounts.

NYLON PLAIN WASHERS

PART No.	PRICE PER THOUSAND - IN LOTS OF:							
	100 TO 499	500 TO 999	1,000 TO 4,999	5,000 TO 9,999	10,000 TO 24,999	25,000 TO 49,999	50,000 TO 99,999	100,000 AND OVER
NW4-2812	\$1.64	\$1.50	\$1.37	\$1.30	\$1.23	\$1.16	\$1.10	\$1.03
NW4-2813	1.88	1.73	1.57	1.49	1.41	1.33	1.26	1.18
NW4-2814	2.30	2.11	1.92	1.82	1.73	1.63	1.54	1.44
NW4-2815	2.63	2.41	2.19	2.08	1.97	1.86	1.75	1.64
NW4-2816	2.95	2.70	2.46	2.34	2.21	2.09	1.97	1.85
NW6-3122	1.75	1.61	1.46	1.39	1.31	1.24	1.17	1.10
NW6-3123	2.04	1.87	1.70	1.62	1.53	1.45	1.36	1.28
NW6-3124	2.51	2.30	2.09	1.99	1.88	1.78	1.67	1.57
NW6-3125	2.90	2.66	2.42	2.30	2.18	2.06	1.94	1.82
NW6-3126	3.26	2.99	2.72	2.58	2.45	2.31	2.18	2.04
NW8-3752	2.08	1.90	1.73	1.64	1.56	1.47	1.38	1.30
NW8-3753	2.63	2.41	2.19	2.08	1.97	1.86	1.75	1.64
NW8-3754	3.17	2.90	2.64	2.51	2.38	2.24	2.11	1.98
NW8-3755	3.71	3.40	3.09	2.94	2.78	2.63	2.47	2.32
NW8-3756	4.25	3.89	3.54	3.36	3.19	3.01	2.83	2.66
NW10-4372	2.29	2.10	1.91	1.81	1.72	1.62	1.53	1.43
NW10-4373	2.94	2.70	2.45	2.33	2.21	2.08	1.96	1.84
NW10-4374	3.60	3.30	3.00	2.85	2.70	2.55	2.40	2.25
NW10-4375	4.25	3.89	3.54	3.36	3.19	3.01	2.83	2.66
NW10-4376	4.90	4.49	4.08	3.88	3.67	3.47	3.26	3.06
NW25-6872	3.98	3.65	3.32	3.15	2.99	2.82	2.66	2.49
NW25-6873	5.50	5.04	4.58	4.35	4.12	3.89	3.66	3.44
NW25-6874	6.98	6.40	5.82	5.53	5.24	4.95	4.66	4.37
NW25-6875	8.50	7.79	7.08	6.73	6.37	6.02	5.66	5.31
NW25-6876	9.97	9.14	8.31	7.89	7.48	7.06	6.65	6.23

Stamped from strip. Specify color: Black or Natural.

Sizes may be accumulated to obtain larger quantity discounts.

Above sizes from stock; other sizes subject to quotation.

Minimum billing \$5.00. Items ordered on minimum billing cannot be returned for credit. Terms: Invoices dated 1st-15th, 1% if paid by 25th; invoices dated 16th-31st, 1% if paid by 10th. Otherwise 30 days net. F.O.B. shipping point. Transportation charges allowed on net billings of \$50.00 or more only on shipper's choice of carrier. No discount allowed on transportation, sales taxes, or similar charges.

Prices subject to change without notice. **EFFECTIVE JANUARY 1, 1963** Supersedes all previous price lists.

MANUFACTURED BY

Weckesser **COMPANY, Inc.**

5701 Northwest Highway - Chicago 46, Illinois

Teletype 312-265-1322

Telephone: 763-6688
Area Code: 312

a product of the . . .

Weckesser COMPANY

CHICAGO



look *inside* for new
additions to the
WECKESSER LINE



**NEW
SHOULDER WASHERS**
(see page 10)



**NEW
STRAP-TITE BUCKLE**
(see page 4)

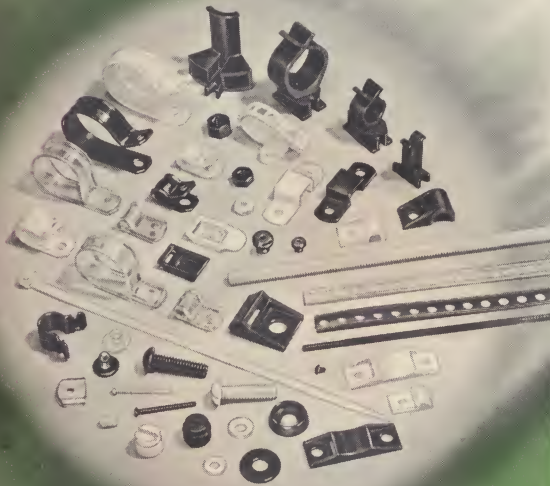
***Weckesser* COMPANY, Inc.**

5701 Northwest Highway, Chicago, Ill. 60646

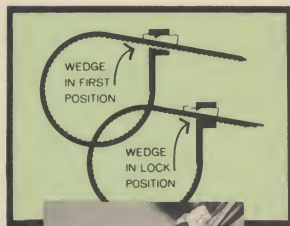
Area Code 312 Phone 763-6688 • Teletype 312-265-1322

Weckesser

plastic fasteners and
holding devices

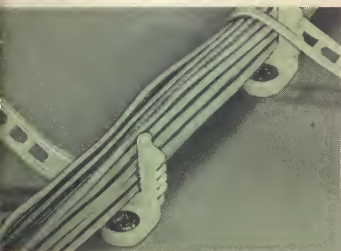


For Banding and Clamping



The most effective replacement for tying or lacing wire bundles. Designed for fast, economical assembly, the Wedge Lock insures positive holding and permanent locking action. Vibration can't shake it loose. Finishes into a neat, compact job on wiring from $\frac{1}{8}$ " to $1\frac{3}{4}$ "

diameters. Available with or without separate mounting tabs. Color: Natural, other colors available at extra cost.

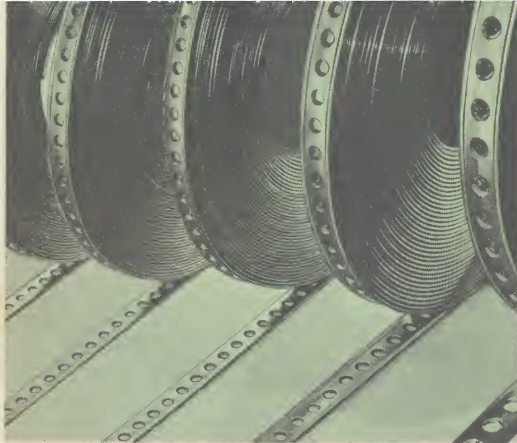


Adjustable, reusable solid nylon clamp with integral mounting bracket. Lock opens easily for clamp removal or adjustment, yet

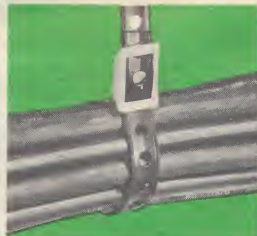
holds tight under severe vibration or impact. Meets MIL-P-20693, Type I. Holds bundles $\frac{3}{8}$ " to $\frac{3}{4}$ " diameter. In stock. Color: Natural only.

Wackesser

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Low-cost perforated nylon strapping can be used for bundling, mounting, clamping or hanging wires, cables, conduit, rods, tubing and pipe—or any combination—in practically any size. It's strong enough to be used as a permanent holder, economical enough for temporary arrangements. It's re-usable. Colors: Black or natural nylon. Continuously spaced center holes—or non-perforated. Stocked in widths .160, $\frac{1}{2}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{5}{8}$ " and $\frac{7}{8}$ " inches; thicknesses from .030 to .070 inch.

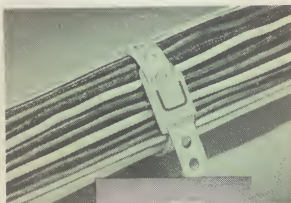


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Wackesser

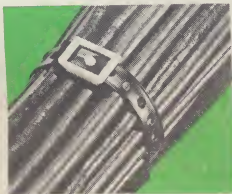
STRAP-TITE BUCKLES

Makes perforated strapping more versatile than ever before. New Strap-Tite stays in place . . . no fasteners needed. It has two lock buttons to provide positive locking action. Available in three sizes. *Colors: Black or Natural.*



RATCHET BUCKLES

For use with Perforated Nylon Strapping in making special clamps and hangers. Sizes in stock fit strapping with hole sizes .167", .203" and .265". *Colors: Black or natural.*



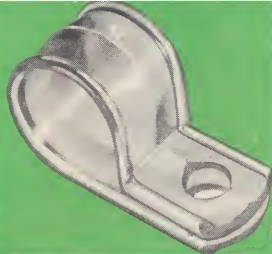
STUD BUTTONS



Quick, easy fastening method—works like a collar button. Fits .096", .167", .203", and .265" hole sizes in Weckesser Perforated Strapping. Solid Nylon. *Colors: Black or Natural.*

NYLON MOUNTING TABS AND MOUNTING CRADLES

Sizes to fit most nylon strapping. For securing harnesses and bundles to mounting panels. Meet MIL-P-20693, Type I. *Colors: Black or natural.*



ETHO-LOC CABLE CLAMPS (Ethyl Cellulose)

Provide excellent performance under ordinary service conditions. Made from Dow "Ethocel" plastic, they con-

tain no metal—eliminate the need for insulating cushions. Available in a range of light and heavy-weight types for any wire size from $\frac{1}{8}$ " to 3". Also stocked in flat style, $\frac{1}{2}$ " wide, various sizes. Meet Military Specification MIL-P-3412. *Color: Clear amber only.*

BUTYRATE CABLE CLAMPS

Weckesser Butyrate Cable Clamps are especially designed for outdoor use. Made entirely from Butyrate, these clamps are ultra-violet stabilized for extreme weather resistance.

Available from stock in clear color for wire sizes from $\frac{1}{8}$ " to $1\frac{1}{2}$ ".

Butyrate formula is approved under Military Specifications L-P-349z, Type III—Class MH.



TEFLON CABLE CLAMPS

A highly flexible yet extremely tough clamp fabricated from Du Pont "Teflon". Chemically inert, these clamps will remain strong and durable under severe service conditions. For $\frac{1}{16}$ " to 1" wire sizes. *Color: White.* Meet MIL-P-14078.



Weckesser

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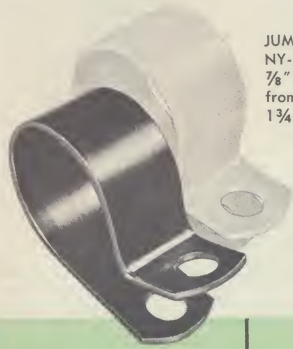
Weckesser

NY-GRIP CABLE CLAMPS

Weckesser Ny-Grip clamps—available in an extremely wide range of types and sizes—offer superior insulating properties and maximum strength for the weight of the material used. They are made from the most solvent-resistant type of nylon—unaffected by petroleum oils and greases at temperatures as high as 300° F., insoluble in common solvents, alkalies, dilute mineral acids and most organic acids, and fungus resistant. *Colors:* Black or natural nylon from stock (black only in Type SN Snap Clips). Other colors on request at slight additional cost.

Ny-Grip Nylon Cable Clamps Meet the Following Military Specifications:

MIL-P-17091A and Amendment 2; MIL-P-17091B; MIL-P-20693, Type I; MIL-STD-242A (SHIPS); MIL-STD-242B (SHIPS); MS-39014 (ORD). NAS-1397; MS-21919 (BU-SHIPS)



JUMBO TYPE 9
NY-GRIP CLAMP
7/8" wide for cables
from 3/8" to
1 3/4" diam.

Clamp Type	For Cable Diameters from
Type 2 (3/32" wide)	1/16" to 1/2"
Type 3 (1/2" wide)	1/8" to 5/8"
Type 4 (3/8" wide)	1/16" to 5/8"
Type 6 (1/2" wide)	1/8" to 1 1/2"
Type 7 (5/8" wide)	3/8" to 1"



TYPE 6 NY-GRIP CLAMP
1/2" wide for cables
1/8" to 1 1/2" diameter.

MINIATURE TYPE J
NY-GRIP CLAMP
3/32" wide for cables
from 1/16" to 3/16"
in diameter



TYPE FN FLAT NY-GRIP CLAMP



TYPE H HALF CLIP



TYPE G STRAP CLAMP

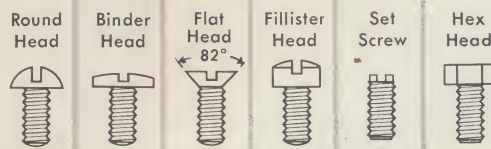


TYPE SN SNAP CLIP



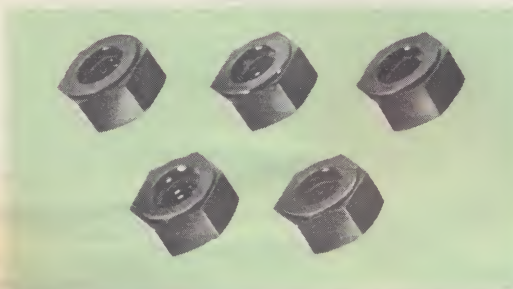
MOLDED NYLON SCREWS

Weckesser screws and nuts are molded of tough, durable, lightweight nylon. They are non-magnetic, with high dielectric strength, and are solvent resistant. They are molded to American Standard Thread Specifications, Class 2 Threads. Over 300 sizes—ranging from 2-56 to $\frac{1}{4}$ -20—in 6 head styles. Weckesser Nylon Screws find many applications as insulating or chemical resistant fasteners. In most cases, bushings, washers or other insulation can be eliminated. They provide excellent torque strength, form-stability at high temperatures and abrasion resistance. *Color:* Black or natural. Other colors on request at slight additional cost.



NYLON CAP NUTS

Can be used with threaded nylon rod for making long screws. Stock thread sizes: 4-40, 6-32, 8-32, 10-32 and $\frac{1}{4}$ -20. *Color:* Black or natural.



NYLON HEXAGONAL NUTS

Stock thread sizes: 2-56, 4-40, 6-32, 8-32, 10-32 and $\frac{1}{4}$ -20. *Color:* Black or natural.

Weckesser

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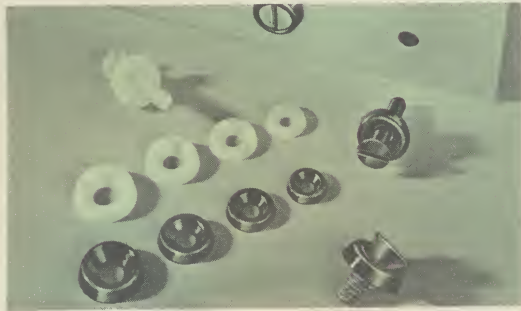
9

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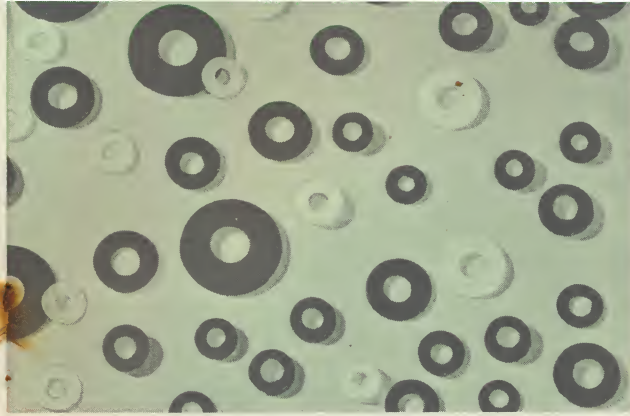
MOLDED NYLON SHOULDER WASHERS

Weckesser Molded Nylon Shoulder Washers provide full insulating protection. Ideal where metal screws must be insulated. Also use as bushing, spacer, or bumper. Available from stock for No. 2, 4, 6, 8, 10, 1/4-20 and 3/8-16 screws. Colors available: black or natural, other colors at extra cost.



NYLON FINISHING WASHERS

For use with #6, #8, #10 and 1/4" countersunk metal or nylon screws. They prevent cutting and scratching of instrument and control panels, cover misaligned holes, can be used as glides, protective feet, bumpers, insulators, spacers. Smooth glossy finish. Black or natural color from stock. Other colors at slight additional cost.

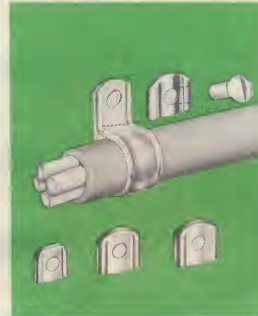


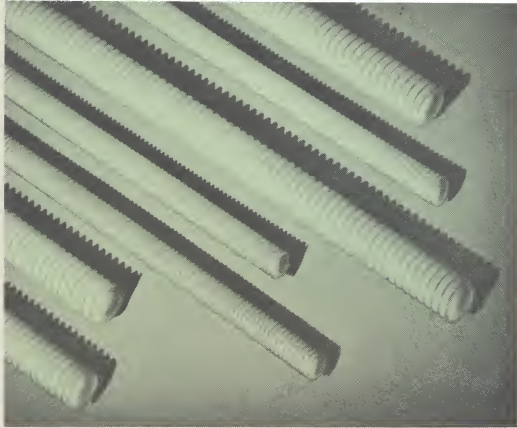
NYLON FLAT WASHERS

Stamped from extruded nylon strip. Used as insulating or cushioning washers, spacers, thrust washers. Black or natural color from stock, other colors at slight additional cost.

"D" WASHERS

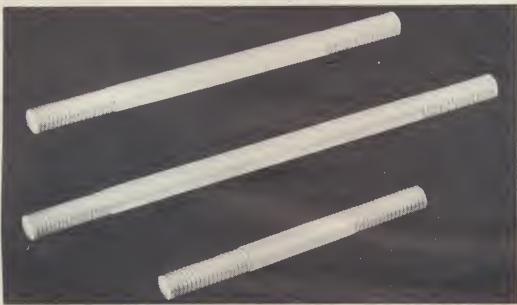
Designed for use with Weckesser plastic cable clamps where extra strength is required. Especially useful for high vibration conditions when lock washer is used under screw head. Made from 22 and 24 gauge steel, cadmium plated. Special platings on request to meet military specs. Stocked in sizes to fit all 3/8", 1/2", and 5/8" wide Weckesser Cable Clamps. Hole sizes .128", .140", .167", .191", .265", .312", and .390". Also available in aluminum.





THREADED NYLON ROD

For non-conducting spacers, random length screws, U-bolt fasteners, etc. Stocked in 6-32, 8-32, 10-32 and 1/4-20 thread sizes—in 2-ft. lengths. Also available in lengths up to 7 1/2 ft. on special request. Color: Natural.



4-40 THREADED NYLON STUDS

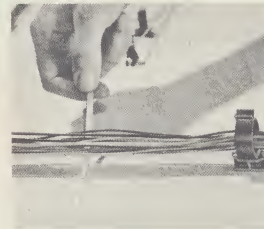
Solid nylon studs with 3/4" of 4-40 threads at each end. Available from stock in 2 1/4", 3 1/2" and 4 1/2" lengths. Black or natural.

Weckesser

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CABLE HARNESSING SYSTEM

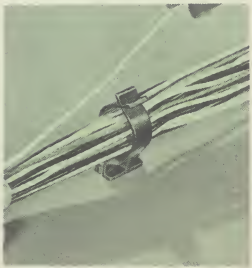


A brand new cost-cutting concept in cable harness assembly for fast, easy, economical pre-formed harness construction. Weckesser Harness Assembly Clips, End Clips and Junction Posts mount right on your present harness boards . . . position and hold wires in neat, compact bundles . . . yet "unsnap" instantly when completed harness is ready for installation.

Weckesser Harness Board Components have solid molded Nylon construction with proper flexural strength for easy insertion and removal of wires. They retain wires in perfect alignment, allow easy bundling and clamping with Weckesser Wedge Lock Band Clamps (see page 2) or lacing cord.

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Weckesser



HARNESS ASSEMBLY CLIPS (AC)

Installed as needed on board wiring diagram with nails or #6 screws. Wires are simply snapped into place—clip closes over wire preventing release. When all wires are laid, bundling, clamping or lacing can be accom-

plished easily due to offset design which provides work space *under* harness. Heavy-duty—can be used again and again. Available from stock in four sizes for 1/2", 1", 1 1/2" and 2" diameter cables.

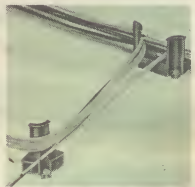
END CLIPS (E-1)

Installed at terminal ends of wires, Weckesser End Clips hold wires in proper position while remaining wires are laid. Can also be used as cable clips in equipment to hold parallel runs of fine wire. Available in one size for wires from 1/64" to .250" in diameter.



JUNCTION POSTS (J-1)

"Build" the post you need to meet varying cable junction requirements exactly with versatile Weckesser Junction Posts. Quarter-round, modular construction allows forming junctions to permit turns from 90° to 360° on either single or multiple wire breakouts.



WECKESSER PRODUCTS STOCKED BY

WHITEHEAD METALS, INC.

550 S. Fullton Ave.
Mt. Vernon, N.Y.
(914) OW 9-5010

CHARLES W. THOMAS CO.

4540 Worth Street
Philadelphia 24, Pa.
Pioneer 4-3100

WECKESSER COMPANY, Inc.

5701 Northwest Highway
Chicago 46, Ill.
763-6688

NORTECH ELECTRONICS LTD.

1335 Lawrence Ave., East
Don Mills, Ontario, Can.
Phone: 416-447-6471

WESCO ELECTRONICS

2620 E. Walnut
Pasadena, California
MU 4-0880
TWX 213-449-1656

FOR MORE INFORMATION CONTACT YOUR LOCAL WECKESSER REPRESENTATIVE

ALABAMA, TENN., GEORGIA

Emory Des. & Equip. Co.
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Birmingham 9, Alabama
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